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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,207	07/29/2003	Johathan Lee	13935US02	5674
23446	7590	09/20/2007	EXAMINER	
MCANDREWS HELD & MALLOY, LTD			RAHMAN, FAHMIDA	
500 WEST MADISON STREET			ART UNIT	PAPER NUMBER
SUITE 3400			2116	
CHICAGO, IL 60661				

MAIL DATE	DELIVERY MODE
09/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/629,207	LEE ET AL.	
	Examiner	Art Unit	
	Fahmida Rahman	2116	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 7/5/2007.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 27-31 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 27-31 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 29 July 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. This final action is in response to communications filed on 7/5/2007.
2. Claims 1-26 have been cancelled and claims 27-31 have been added. Thus, claims 27-31 have been pending.

Claim Objections

The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Claims 27 and 28 labeled with status identifier "new". However, these claim numbers were originally presented in 7/29/03. The response filed on 4/28/2006 showed claim 27 as "amended" and claim 28 as "original". Response filed on 1/11/2007 did not show claims 27 and 28. Therefore, Examiner assumed that these claims were cancelled. However, response filed on 7/5/2007 shows the status identifiers as "new" for claims 27 and 28.

It is assumed that claims 27 and 28 are canceled by the applicant and the misnumbered claims 27-31 filed on 7/5/2007 should be renumbered with claims 29-33. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shoobridge (US Patent 6633769), in view of Mills (US Patent 6795450).

For claim 27, Shoobridge teaches the following limitations:

A method for optimizing power consumption in a communication system (abstract) comprising: detecting an amount of traffic (lines 33-47 of column 5) mention that if communication is absent for a predetermined time. Thus, amount of traffic, which may be zero or non-zero, is detected), **a link** ([0008] mentions that communications between two devices is established through connection, or link. Thus, link is detected first before any communication), **battery usage** (lines 32-47 of column 5) **and a power state of the communication system** (“normal mode” and “enhanced mode” as mentioned in lines 65-67 of column 2); **and selecting at least one power management from a plurality of power management states state** (sleep/suspend 440, hot/wake-up 460 mentioned in lines 24-40 of column 8; wake-up can further be classified as: wake-up with deinsertion/insertion event, wake-up without deinsertion/insertion event, communication session between two devices is another power management state) **based at least in part on said detection of the amount of**

traffic (“sleep mode” is selected when traffic is zero as mentioned in lines 40-47 of column 5), **the detection of the battery usage** (“sleep” when battery module fail as mentioned in [0028]) **and the detection of the power state** (the “hot mode” or wake-up of normal mode is different from that of enhanced mode. [0035] mentions that enhanced mode does not create some de-insertion/insertion events on a resume of a device, which is performed in normal mode. Therefore, the type of wake-up depends on whether the device is in normal mode or enhanced mode)

Shoobridge does not explicitly mention about absence of AC power. The hand held portable device is powered by battery (lines 33-47 of column 5). However, there is no mention about the absence of AC power in mobile although it is mentioned that the mobile device can roam from cell to cell (lines 54-65 of column 1).

Examiner takes an official notice that mobile device roaming from cell to cell is typically driven by battery with an absence of AC power.

It would have been obvious for one ordinary skill in the art at the time the invention was made to use the mobile without AC power, since powering a portable device by battery with absence of AC power provides ease of use and simplicity in design.

Shoobridge does not explicitly mention that selection of power management state can be based on detection of link. Mills teaches a system where a power management state

is selected based on the detection of link (Figure 3 shows that 300 is selected if link is not detected and lines 30-35 of column 8 mention that partner will reset if link is not detected).

It would have been obvious for one ordinary skill in the art at the time the invention was made to combine the teachings of Shoobridge and Mills. One ordinary skill would be motivated to have a power management state based on detection of link, since absence of link may require special power management scheme, such as reset.

For claim 28, low power mode in Shoobridge is selected when there is no traffic.

For claims 29-31, Mills teaches detecting intensity, or amount of traffic (lines 60-67 of column 9). The network can detect full high-bandwidth communication and limited communication. There is a threshold for comparison to figure out what amount of communication is high-bandwidth communication. The amount of traffic is approximated to at least full bandwidth communication and limited communication. For limited communication, power is scaled down.

Response to Arguments

The official notice not argued by the applicant is considered as admitted prior art.

Applicant's arguments filed on 7/5/2007 are moot in view of new grounds of rejections. However, Shoobridge is still relied upon for rejection and Examiner is addressing the arguments relevant to Shoobridge.

Applicant argues that Shoobridge does not teach selecting at least one power management state from a plurality of power management states based at least in part on said detection of the amount of traffic, the detection of battery usage with an absence of AC power and the detection of the power state.

Examiner disagrees. "sleep mode", a power management mode, is selected when traffic is zero as mentioned in lines 40-47 of column 5. "sleep mode" is selected when battery module fails ([0028]). "Wake-up with deinsertion/insertion", another power management state, is selected when the device sleeps in normal mode ([0033]), which itself detects the old link and destroy it to establish a new link.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a). A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fahmida Rahman whose telephone number is 571-272-8159. The examiner can normally be reached on Monday through Friday 8:30 - 5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Fahmida Rahman
Examiner
Art Unit 2116

REHANA PERVEEN
SUPERVISORY PATENT EXAMINER
9/17/07